

Listing of Claims:

Claim 1 (withdrawn): An anode, comprising:
an anode current collector having a projection; and
an anode active material layer being disposed on the anode current collector, and being alloyed with the anode current collector in at least a portion of an interface with the anode current collector, and including at least one kind selected from the group consisting of silicon and silicon compounds.

Claim 2 (previously amended): An anode, comprising:
an anode current collector having a projection; and
an anode active material layer being formed on and covering the anode current collector and projection through at least one method selected from the group consisting of a vapor deposition method, a liquid-phase deposition method and a sintering method, and including at least one material selected from the group consisting of silicon (Si) and silicon compounds, wherein an average diameter of the projection ranges from about 3 μm to about 10 μm .

Claim 3 (original): The anode according to claim 2, wherein
the anode active material layer is alloyed with the anode current collector in at least a portion of an interface with the anode current collector.

Claim 4 (original): The anode according to claim 2, wherein
the anode current collector is formed through forming a projection in a particle shape on a substrate.

Claim 5 (cancelled)

Claim 6 (original): The anode according to claim 2, wherein
the projection includes an element capable of being alloyed with the anode active material layer.

Claim 7 (original): The anode according to claim 2, wherein the projection includes at least one constituent selected from the group consisting of copper (Cu), nickel (Ni), iron (Fe), aluminum (Al), indium (In), cobalt (Co), manganese (Mn), zinc (Zn), silver (Ag), tin (Sn), germanium (Ge) and lead (Pb).

Claim 8 (original): The anode according to claim 2, wherein the anode active material layer is alloyed with the projection in at least a portion of an interface with the projection.

Claim 9 (withdrawn): A battery, comprising:
a cathode;
an anode; and
an electrolyte,
wherein the anode includes an anode current collector having a projection, and an anode active material being disposed on the anode current collector, and being alloyed with the anode current collector in at least a portion of an interface with the anode current collector, and including at least one kind selected from the group consisting of silicon (Si) and silicon compounds.

Claim 10 (previously presented): A battery, comprising:
a cathode;
an anode; and
an electrolyte,
wherein the anode includes an anode current collector having a projection, and
an anode active material layer being formed on and covering the anode current collector and projection through at least one method selected from the group consisting of a vapor deposition method, a liquid-phase deposition method and a sintering method, and including at least one type of material selected from the group consisting of silicon (Si) and silicon compounds, wherein an average diameter of the projection ranges from about 3 μm to about 10 μm .

Claim 11 (original): The battery according to claim 10, wherein the anode active material layer is alloyed with the anode current collector in at least one portion of an interface with the anode current collector.

Claim 12 (original): The battery according to claim 10, wherein the anode current collector is formed through forming a projection in a particle shape on a substrate.

Claim 13 (cancelled)

Claim 14 (original): The battery according to claim 10, wherein the projection includes an element capable of being alloyed with the anode active material layer.

Claim 15 (original): The battery according to claim 10, wherein the projection includes at least one constituent selected from the group consisting of copper (Cu), nickel (Ni), iron (Fe), aluminum (Al), indium (In), cobalt (Co), manganese (Mn), zinc (Zn), silver (Ag), tin (Sn), germanium (Ge) and lead (Pb).

Claim 16 (original): The battery according to claim 10, wherein the anode active material layer is alloyed with the projection in at least a portion of an interface with the projection.

Claim 17 (original): The battery according to claim 10, wherein the electrolyte includes a retaining body, a solvent and an electrolyte salt.

Claim 18 (original): The battery according to claim 10, further comprising: a film-shaped package part for containing the cathode, the anode and the electrolyte therein.

Claim 19 (original): The battery according to claim 10, wherein the cathode includes a lithium-containing metal composite oxide.